


CURRICULUM VITAE FOR Malcolm V. Brock

The Johns Hopkins University School of Medicine


Malcolm V. Brock, MD

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DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointments

2000-present Active Staff, Thoracic Surgery, Johns Hopkins Hospital
2005-2015 Associate Professor of Surgery, Division of Thoracic Surgery, Johns Hopkins University SOM
2005-2015 Associate Professor of Oncology, Division of Cancer Biology, Johns Hopkins University SOM
2008-2015 Associate Professor of Environmental Health Sciences, Bloomberg School of Public Health
2015-present Professor of Surgery and Oncology, Division of Thoracic Surgery and Division of Cancer Biology, Johns Hopkins University SOM
2016-2021 Adjunct Professorship, Central South University of Changsha, Changsha, China

Personal Data

Division of Thoracic Surgery
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Education and Training:

Undergraduate

1982 Science, Bermuda College, Bermuda
1985 A.B., Molecular Biology, Princeton University, Princeton, New Jersey

Doctoral/Graduate

1988 Rhodes Scholarship – Master of Letters, East Asian Studies, Oxford University, Oxford, UK
1991 M.D., Johns Hopkins University School of Medicine, Baltimore, MD

Postdoctoral

1991-1992 Intern in General Surgery, Johns Hopkins Hospital, Baltimore, MD
1992-1993 Second Year Resident in Surgery, Johns Hopkins Hospital, Baltimore, MD
1993-1995 Research Fellow in Cardiothoracic Surgery, Johns Hopkins Hospital, Baltimore, MD
1995-1996 Resident in Surgery, Johns Hopkins Hospital, Baltimore, MD
1996-1997 Chief Resident in General, Surgery, Johns Hopkins Hospital, Baltimore, MD
1997-1998 Fellow in Cardiothoracic Surgery, Johns Hopkins Hospital, Baltimore, MD
7/98-12/98 Senior Registrar in Cardiothoracic Surgery, Oxford Regional Health Authority, John Radcliffe Hospital, Oxford, United Kingdom
1/99-7/99 Fellow in Cardiothoracic Surgery, Johns Hopkins Hospital, Baltimore, MD
1999-2000 Chief Resident in Cardiothoracic Surgery, Johns Hopkins Hospital, Baltimore, MD

Professional Experience:

2000-present Active Staff, Thoracic Surgery, Johns Hopkins Hospital, Baltimore, MD

2000-2001	Instructor of Surgery, Johns Hopkins Hospital, Baltimore, MD
2001-2005	Assistant Professor, Department of Surgery, Johns Hopkins Hospital, Baltimore, MD
2003-2005	Assistant Professor, Department of Oncology, Johns Hopkins Hospital, Baltimore, MD
2005-2015	Associate Professor of Surgery, Division of Thoracic Surgery, Johns Hopkins University SOM, Baltimore, MD
2005-2015	Associate Professor of Oncology, Division of Cancer Biology, Johns Hopkins University SOM, Baltimore, MD
2008-2015	Associate Professor of Environmental Health Sciences, Bloomberg School of Public Health, Baltimore, MD
2015-present	Professor of Surgery and Oncology, Johns Hopkins University School of Medicine, Baltimore, MD

RESEARCH ACTIVITIES:

Peer-reviewed Original Science Publications: Citations: 5621 H-Index: 37 (see citation report as of 5/31/015)

*Co-Senior Authorship Denoted.

1. **Brock MV**. Science in Japan Nissan Papers, Nissan Institute, Oxford University 1986
2. **Brock MV**. Japanese Biotechnology Seminar Papers, Newcastle University 1986
3. **Brock MV**. Japanese Decision-making in Biotechnology Policy Conference Papers of the British Association of Japanese Studies Ed. Chapman J and Steeds D 1986
4. Kho N. translated by **Brock MV**, Moran M, Ishikawa Y. Shamanism and Medical Cures Current Anthropology Vol. 28:4, 1987
5. Schuler S, DeValeria P, Curtis W, **Brock MV**, Baumgartner WA, Reitz B. 24 Hour Lung Preservation with Donor Core Cooling and Leukocyte Depletion in a Bilateral Lung Transplant Model Surgical Forum October 1990
6. Cho PW, **Brock MV**, Moore CC, McVeigh ER, Tsitlik JE, Acker MA. Mechanism of Cardiomyoplasty: Comparison of Left vs Right Cardiomyoplasty Using Three-Dimensional Tagged Magnetic Resonance Reconstruction in a Canine Model of Chronic Heart Failure Surgical Forum 1995.
7. **Brock MV**, Blue ME, Lowenstein CJ, Northington F, Lange M, Johnston MV, Baumgartner WA. Induction of Neuronal Nitric Oxide After Hypothermic Circulatory Arrest. Annals of Thoracic Surgery 1996;62: 1313-1320.
8. Tseng EE, **Brock MV**, Lange MS, Blue ME, Lowenstein CJ, Troncoso JC, Johnston MV, Baumgartner WA. NMDA Receptor Antagonist MK-801 Reduces Neuronal Apoptosis in a Canine Model of Hypothermic Circulatory Arrest. Surgical Forum Vol. XLVII 1996, 266-269.
9. **Brock MV**, Redmond JM, Ishiwa S, Johnson MV, Baumgartner WA, Laschinger JC, Williams GM. Clinical Markers in CSF for Determining Neurologic Deficits After Thoracoabdominal Aortic Aneurysm Repairs. Annals of Thoracic Surgery 1997;64:999-1003.
10. Baumgartner WA, Redmond JM, **Brock M**, Tseng EE, Blue ME, Troncoso JC, Johnston MV. Pathophysiology of Cerebral Injury and Future Management. Journal of Cardiac Surgery 1997;12 (Supl);000-000.
11. Tseng EE, **Brock MV**, Kwon CC, Salazar JD, Doty JR, Lowenstein CJ, Johnston MV, Baumgartner WA. Quantitative Analysis of Intracerebral Excitatory Amino Acids and Citrulline following Hypothermic Circulatory Arrest. Surgical Forum Vol XLVIII; 1997; 297-299.
12. Tseng EE, **Brock MV**, Lange MS, Blue ME, Troncoso JC, Kwon CC, Lowenstein CJ, Johnston MV, Baumgartner WA. Neuronal Nitric Oxide Synthase Inhibition Reduces Neuronal Apoptosis After Hypothermic Circulatory Arrest. Ann Thorac Surg. 1997; 64(6):1639-47.
13. Baumgartner WA, Redmond JM, Zehr KJ, **Brock MV**, Tseng EE, Blue ME, Troncoso JC, Johnston MV. The role of the monosialoganglioside, GM1 as a neuroprotectant in an experimental model of cardiopulmonary bypass and hypothermic circulatory arrest. Ann N Y Acad Sci. 1998; 19; 845:382-90.
14. Tseng EE. **Brock MV**, Lange MS, Troncoso JC, Blue ME, Lowenstein CJ, Johnston MV, Baumgartner WA. Monosialoganglioside GM₁ inhibits neurotoxicity after Hypothermic Circulatory Arrest Surgery 1998. 124(2):298-306.
15. Tseng EE, **Brock MV**, Lange MS, Troncoso JC, Lowenstein CJ, Blue ME, Johnston MV, Baumgartner WA. Nitric Oxide Mediates Neurologic Injury after Hypothermic Circulatory Arrest. Ann Thorac Surg. 1999; 67(1): 65-71.

16. Tseng EE, **Brock MV**, Kwon CC, Annanata M, Lange MS, Troncoso JC, Johnston MV, Baumgartner WA. Increased Intracerebral Excitatory Amino Acids and Nitric Oxide After Hypothermic Circulatory Arrest. *Ann Thorac Surg.* 1999; 67(2):371-6.
17. Baumgartner WA, Walinsky PL, Salazar JD, Tseng EE, **Brock MV**, Doty JR, Redmond JM, Blue ME, Goldsborough MA, Troncoso JC, Johnston MV. Assessing the Impact of Cerebral Injury After Cardiac Surgery: Will Determining the Mechanism Reduce this Injury? *Ann Thorac Surg* 1999; 67(6):1871-3.
18. **Brock MV**, Heitmiller RF. Spontaneous Anterior Thoracic Lung Hernias. *J Thorac Cardiovasc Surg.* 2000;119(5):1046-7.
19. **Brock MV**, Venbrux AC, Heitmiller RF. Percutaneous Replacement Jejunostomy After Esophagogastrectomy. *J Gastrointest Surg.* 2000;4(4):407-10.
20. **Brock MV**, Salazar JD, Cameron DE, Baumgartner WA, Conte JV. The Changing Profile of the Cardiac Donor. *J Heart Lung Transplant.* 2001;20(9):1005-9.
21. **Brock MV**, Borja MC, Ferber L, Orens JB, Anzcek RA, Krishnan J, Yang SC, Conte JV. Induction Therapy in Lung Transplantation: A Prospective, Controlled Clinical Trial Comparing OKT3, Anti-Thymocyte Globulin, and Daclizumab. *J Heart Lung Transplant.* 2001;20(12):1282-90.
22. Ahrendt SA, Yang SC, Wu L, Roig CM, Russell P, Westra WH, Jen J, **Brock MV**, Heitmiller RF, Sidransky D. Molecular Assessment of Lymph Nodes in Patients with Resected Stage I Non-Small Cell Lung Cancer: Preliminary Results of a Prospective Study. *J Thorac Cardiovasc Surg.* 2002;123(3):466-73.
23. Caparrelli DJ, Cattaneo SM 2nd, **Brock MV**, Conte JV. Aortic and Mitral Valve Disruption Following Nonpenetrating Chest Trauma. *J Trauma* 2002;52(2):377-9.
24. **Brock MV**, Are C, Wu TT, Canto M, Yang SC, Heitmiller RF. Polypoid Esophageal Adenocarcinoma – A Clinicopathological Variant of Esophageal Cancer? *Curr Surg.* 2002;59(3):336-41.
25. **Brock MV**, Gou M, Akiyama Y, Muller A, Wu TT, Montgomery E, Deasel M, Germonpré P, Rubinson L, Heitmiller RF, Yang SC, Forastiere AA, Baylin SB, Herman JG. Prognostic Importance of Promoter Hypermethylation of Multiple Genes in Esophageal Adenocarcinoma. *Clin Cancer Res.* 2003;9(8): 2912-9.
26. **Brock, M.V.**, Kim, M.P., Hooker, C.M., Alberg, A.J., Jordan, M.M., Roig, C.M., Xu, L., Yang, S.C. Pulmonary Resection In The Octogenarian With Stage I Non-Small Cell Lung Cancer (NSCLC): A 22 Year Experience. *Annals of Thoracic Surgery* 2003;77(1):271-77.
27. House MG, Guo M, Efron DT, Lillemoe KD, Cameron JL, Syphard JE, Hooker CM, Abraham SC, Montgomery EA, Herman JG, **Brock MV**. Tumor suppressor gene hypermethylation as a predictor of gastric stromal tumor behavior. *J Gastrointest Surg.* 2003;7(8):1004-14.
28. **Brock MV**, Alberg AJ, Hooker CM, Kammer AL, Xu L, Roig CM, Yang SC. Risk of Subsequent Primary Neoplasms Developing in Lung Cancer Patients with Prior Malignancies. *J Thorac Cardiovasc Surg.* 2004; 127(4):1119-25.
29. Montgomery E, Abraham SC, Fisher C, Deasel MR, Amr SS, Sheikh SS, House M, Lillemoe K, Choti M, **Brock MV**, Ephron DT, Zahuruk M, Chadburn A. CD44 Loss in Gastric Stromal Tumors as a Prognostic Marker. *Am J Surg Pathol* 2004;28(2):168-77.
30. Alberg AJ, Park JW, Hager BW, **Brock MV**, Diener-West M. The Use of “Overall Accuracy” to Evaluate the Validity of Screening or Diagnostic Tests. *J Gen Intern Med.* 2004;19(5 Pt 1):460-5.
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32. Masasyesva BG, Tong BC, **Brock MV**, Pilkington T, Goldenberg D, Sidransky D, Harden S, Westra WH, Califano J. Molecular Margin Analysis Predicts Local Recurrence After Sublobar Resection of Lung Cancer. *Int J Cancer.* 2005;113(6):1022-5.
33. **Brock MV**, Hooker CM, Syphard JE, Westra W, Xu L, Alberg AJ, Mason D, Baylin SB, Herman JG, Yung RC, Brahmer J, Rudin CM, Ettinger DS, Yang SC. Surgical Resection of Limited Disease Small Cell Lung Cancer in the New Era of Platinum Chemotherapy: Its Time Has Come. *J Thorac Cardiovasc Surg.* 2005;129(1):64-72.
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35. Hansel DE, Dhara S, Huang RC, Ashfaq R, Deasel M, Shimada Y, Bernstein HS, Harmon J, **Brock MV**, Forastiere A, Washington MK, Maitra A, Montgomery E. CDC2/CDK1 Expression in Esophageal

- Adenocarcinoma and Precursor Lesions Serves as a Diagnostic and Cancer Progression Marker and Potential Novel Drug Target. *Am J Surg Pathol*. 2005;29(3):390-9.
36. Galm O, Suzuki H, Akiyama Y, Esteller M, **Brock MV**, Osieka R, Baylin SB, Herman JG. Inactivation of the tissue inhibitor of metalloproteinases-2 gene by promoter hypermethylation in lymphoid malignancies. *Oncogene*. 2005;24(30):4799-805.
 37. Alberg AJ, **Brock MV**, Samet JM. Epidemiology of Lung Cancer: Looking to the Future. *J Clin Oncol*. 2005; 23(14):3175-85.
 38. **Brock MV**, Hooker CM, Yung R, Guo M, Han Y, Ames SE, Chang D, Yang SC, Mason D, Sussman M, Baylin SB, Herman JG. Can We Improve The Cytological Examination Of Malignant Pleural Effusions Using Molecular Analysis? *Ann Thorac Surg*. 2005;80(4):1241-7.
 39. Engels EA, **Brock MV**, Chen J, Hooker CM, Gillison M, Moore RD. Elevated Incidence of Lung Cancer among HIV-infected individuals. *J Clin Oncol*. 2006;24(9):1383-8.
 40. Montgomery E, Mamelak AJ, Gibson M, Maitra A, Sheikh S, Amr SS, Yang S, **Brock MV**, Forastiere A, Zhang S, Murphy KM, Berg KD. Overexpression of Claudin Proteins in Esophageal Adenocarcinoma and Its Precursor Lesions. *Appl Immunohistochem Mol Morphol*. 2006; 14(1):24-30.
 41. Guo M, House MG, Akiyama Y, Qi Y, Capagna D, Harmon J, Baylin SB, **Brock MV**, Herman JG. Hypermethylation of the GATA Gene Family in Esophageal Cancer. *Int J Cancer*. 2006;119(9):2078-83.
 42. Machida EO, **Brock MV**, Hooker CM, Nakayama J, Ishida A, Amano J, Picchi MA, Belinsky SA, Herman JG, Taniguchi S, Baylin SB. Hypermethylation of *ASC/TMS1* is a sputum marker for late-stage lung cancer. *Cancer Res*. 2006;66(12):6210-8.
 43. Guo M, Ren J, House MG, Qi Y, **Brock MV**, Herman JG. Accumulation of Promoter Methylation suggests Epigenetic Progression in Squamous Cell Carcinoma of the Esophagus. *Clin Cancer Res*. 2006;12(15):4515-22.
 44. **Brock MV**, Hooker CM, Engels EA, Moore RD, Gillison ML, Alberg AJ, Keruly JC, Yang SC, Heitmiller RF, Baylin SB, Herman JG, Brahmer JR. Delayed Diagnosis and Elevated Mortality in an Urban Population with HIV and Lung Cancer: Implications for Patient Care. *J Acquir Immune Defic Syndr*. 2006;43(1):47-55.
 45. Singh A, Misra V, Thimmulappa RK, Lee H, Ames S, Hoque MO, Herman JG, Baylin SB, Sidransky D, Gabrielson E, **Brock MV**, Biswal S. Dysfunctional KEAP1-Nrf2 Interaction in Non-Small-Cell Lung Cancer. *PLoS Med*. 2006;3(10):e420.
 46. **Brock MV**. Clinical Aspects of Molecular Biology for the Diagnosis and Treatment of Esophageal Cancer. *Esophagus* 2006; 3(3)91-94.
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 49. Gibbons MC, **Brock MV**, Alberg AJ, Glass T, LaVeist TA, Baylin SB, Levine D, Fox CE. The Sociobiologic Integrative Model (SBIM): Enhancing the integration of sociobehavioral, environmental, and biomolecular knowledge in Urban Health and Disparities Research. *J Urban Health*. 2007;84(2):198-211.
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 51. **Brock MV**, Herman JG, Baylin SB. Cancer as a Manifestation of Aberrant Chromatin Structure. *Cancer J*. 2007;13(1):3-8.
 52. Guo M, House MG, Suzuki H, Ye Y, **Brock MV**, Lu F, Liu Z, Rustgi AK, Herman JG. Epigenetic Silencing of CDX2 is a Feature of Squamous Esophageal Cancer. *Int J Cancer*. 2007;121(6):1219-26.
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 54. Sherwood JT, **Brock MV**. Lung Cancer: New Surgical Approaches. *Respirology*. 2007;12(3):326-32.
 55. Daniels JA, Gibson MK, Xu L, Sun S, Canto MI, Heath E, Wang J, **Brock MV**, Montgomery E. Gastrointestinal Tract Epithelial Changes Associated with Taxanes: Marker of Drug Toxicity versus Effect. *Am J Surg Pathol*. 2008;32(3):473-7.
 56. Meguid RA, Brooke BS, Chang DC, Sherwood JT, **Brock MV**, Yang SC. Are Surgical Outcomes for Lung Cancer Resections Improved at Teaching Hospitals? *Ann Thorac Surg*. 2008;85(3):1015-24.

57. **Brock MV**, Hooker CM, Ota-Machida E, Han Y, Guo M, Ames S, Glöckner S, Piantadosi S, Gabrielson E, Pridham G, Pelosky K, Belinsky SA, Yang SC, Baylin SB, Herman JG. DNA Methylation Markers and Early Recurrence in Stage 1 Lung Cancer. *N Engl J Med*. 2008;358(11):1118-28.
58. Tessema M, Willink R, Do K, Yu YY, Yu W, Machida EO, **Brock MV**, Van Neste L, Stidley CA, Baylin SB, Belinsky SA. Promoter methylation of genes in and around the candidate lung cancer susceptibility locus 6q23-25. *Cancer Res*. 2008;68(6):1707-14.
59. Guo M, Ren J, **Brock MV**, Herman JG, Carraway HE. Promoter methylation of HIN-1 in the progression to esophageal squamous cancer. *Epigenetics*. 2008;3(6):336-41.
60. Meguid RA, Weiss ES, Chang DC, **Brock MV**, Yang SC. The Effect of Volume On Esophageal Cancer Resections: What Constitutes Acceptable Resection Volumes for Centers of Excellence? *J Thorac Cardiovasc Surg*. 2009;137(1):23-9. PMID: PMC2631576.
61. Jiang T, Collins BJ, Jin N, Watkins DN, **Brock MV**, Matsui W, Nelkin BD, Ball DW. Achaete-scute complex homologue 1 regulates tumor-initiating capacity in human small cell lung cancer. *Cancer Res*. 2009;69(3):845-54. PMID: PMC2919317.
62. **Brock MV**, Pridham G, Pelosky K, Sokoll L, Clark D, Gabrielson E, Li QK. Detection of Circulating Tumor Cells in Lung Cancer Patients. *The ASC Bulletin Vol XLVI March 2009*.
63. Meguid RA, Hooker CM, Taylor JT, Kleinberg LR, Cattaneo SM 2nd, Sussman MS, Yang SC, Heitmiller RF, Forastiere AA, **Brock MV**. Recurrence after Neoadjuvant Chemoradiation and Surgery for Esophageal Cancer: Does the pattern of recurrence differ for patients with complete response and those with partial or no response? *J Thorac Cardiovasc Surg*. 2009;138(6):1309-17. PMID: PMC3654695.
64. Bailey VJ, Keeley BP, Zhang Y, Ho YP, Easwaran H, **Brock MV**, Pelosky KL, Carraway HE, Baylin SB, Herman JG, Wang TH. Enzymatic Incorporation of Multiple Dyes for Increased Sensitivity in QD-FRET Sensing for DNA Methylation Detection. *Chembiochem*. 2010;11(1):71-4. PMID: PMC2981340.
65. Tseng EE, **Brock MV**, Lang MS, Troncoso JC, Blue ME, Lowenstein CJ, Johnston MV, Baumgartner WA. Glutamate Excitotoxicity Mediates Neuronal Apoptosis After Hypothermic Circulatory Arrest. *Ann Thorac Surg*. 2010;89(2):440-5. PMID: PMC3076934.
66. Bhattacharya R, Kowalski J, Larson AR, **Brock M**, Alani RM. Id1 Promotes Tumor Cell Migration in Non-Small Cell Lung Cancers. *J Oncol*. 2010;2010:856105. PMID: PMC2855985.
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69. Meguid RA, Hooker CM, Harris J, Xu L, Westra WH, Sherwood JT, Sussman M, Cattaneo SM 2nd, Shin J, Cox S, Christensen J, Prints Y, Yuan N, Zhang J, Yang SC, **Brock MV**. Long-term survival outcomes by smoking status in surgical and non-surgical patients with non-small cell lung cancer: comparing never smokers and current smokers. *Chest* 2010;138(3):500-9. PMID: PMC2940065.
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*Brock and Rudin are co-correspondent authors.
73. Zhang JQ, Hooker CM, **Brock MV**, Shin J, Lee S, How R, Franco N, Prevas H, Hulbert A, Yang SC. Neoadjuvant Chemoradiation Therapy is Beneficial for Clinical Stage T2 N0 Esophageal Cancer Patients Due to Inaccurate Preoperative Staging. *Ann Thorac Surg*. 2012;93(2):429-35. NIHMSID# 580164.
74. Hooker CM, Meguid RA, Hulbert A, Taylor JT, Shin J, Wrangle J, Rodgers K, Lee B, Laskshmanan S, Brown T, Meneshian A, Sussman M, Keruly J, Moore RD, Yang SC, **Brock MV**. Human Immunodeficiency Virus Infection as a Prognostic Factor in Surgical Patients with Non-Small Cell Lung Cancer. *Ann Thorac Surg*. 2012;93(2):405-12. PMID: PMC3298359.

75. Pauli EM, Staveley-O'Carroll KF, **Brock MV**, Efron DT, Efron G. A Handy Tool to Teach Segmental Liver Anatomy to Surgical Trainees. *Arch Surg.* 2012;147(8):692-3. PMID: PMC4061562
76. Tsai HC, Li H, Van Neste L, Cai Y, Robert C, Rassool FV, Shin JJ, Harbom KM, Beaty R, Pappou E, Harris J, Yen RW, Ahuja N, **Brock MV**, Stearns V, Feller-Kopman D, Yarmus LB, Lin YC, Welm AL, Issa JP, Minn I, Matsui W, Jang YY, Sharkis SJ, Baylin SB, Zahnow CA. Transient Low Doses of DNA Demethylating Agents Exert Durable Anti-tumor Effects on Hematological and Epithelial Tumor Cells. *Cancer Cell.* 2012;21(3):430-46. PMID: PMC3312044.
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86. Pillai RN, Brodie SA, Sica GL, Shaojin Y, Li G, Nickleach DC, Yuan L, Varma VA, Bonta D, Herman JG, **Brock MV**, Ribeiro MJ, Ramalingam SS, Owonikoko TK, Khuri FR, Brandes JC. CHFR protein expression predicts outcomes to taxane-based first line therapy in metastatic NSCLC. *Clin Cancer Res.* 2013;19(6):1603-11. PMID: PMC3602233.
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Invited Review

1. Alberg AJ*, Wallace K, Silvestri GA, **Brock MV**. Invited Commentary: The Etiology of Lung Cancer in Men Compared With Women. *Am J Epidemiol*. 2013;177(7):613-6. PMID: PMC3657534.

2. Teran MD, **Brock MV**. Staging lymph node metastases from lung cancer in the mediastinum. *J Thorac Dis.* 2014;6(3):230-236. PMID: PMC3949187.

Inventions, Patents, Copyrights

- 11/07 filed U.S. Patent #60/860,196: Using DNA Methylation Markers to Predict Early Recurrence and to Restage Patients with Cancer.
4/08 Licensed to Oncomethylome Sciences
9/08 Sub-Licensing negotiations with Genzyme Genetics
9/08 Sub-Licensing negotiations with Lab Corp
1/08 filed Provisional Patent: JHU C10317: Using DNA Methylation Markers to Predict Chemosensitivity to Taxane Therapy; Licensed to MDxHealth.
4/13 filed European Patent #12 163 883.7: An In Vitro Method for Identifying Lung Cancer in Tumor and Lymph Node Samples.
3/18 filed U.S. Patent Application #15/910,629: Compositions and Methods for Detecting and Diagnosing Neoplasia.

Extramural Funding (current, pending, previous)

Current:

- 1/1/15-12/31/18 Clinical Trials of Epigenetic Therapy in Non-Small Cell Lung Cancer
CCR-14.100
Rising Tide Foundation
\$599,328
PI: Baylin
Role: Co-Inv; 0.6 calendar; We are addressing the hypothesis that reversal of cancer-specific DNA methylation and chromatin abnormalities can potentially change the management of NSCLC.
- 4/1/15-3/31/20 Adjuvant Epigenetic Therapy in Early Stage Non-Small Cell Lung Cancer
Brockman Family Foundation
\$2,300,000
PI: Brock
Role: PI; 1.2 calendar; Using epigenetic therapy as an adjuvant treatment to prevent the recurrence of lung cancer after surgical resection.
- 9/1/15-8/31/18 Lung Cancer Registry ONC-003-Surgeon Specific Registry
Myriad Genetics
\$58,280
PI: Brock
Role: PI; 0.6 calendar
- 3/1/16-3/31/20 Maternal Stress-Induced Epigenetic Processes in Cancer & Coronary Artery Disease
Juntendo University
\$50,000
PI: Brock
Role: PI; 0.6 calendar
- 4/1/07-5/31/19 Clinical and Laboratory Research Training for Surgical Oncologists
T32 CA126607-09
NCI
\$438,202
PI: Zheng
Role: Co-Investigator; To provide formal training in scientific thought and technique to a

highly select group of individuals. A total of six training slots are competitively awarded to trainees pursuing highly sought-after subspecialty fellowship training Surgical Oncology, as well as General Surgery residents committed to careers in cancer research.

7/1/96-6/30/22 Clinical and Laboratory Research Training for Gastrointestinal Surgeons
T32 DK007713-21
NIDDK
\$211,422
PI: Hackam
Role: Co-Investigator; A training grant for postdoctoral fellows to learn basic and translational research skills in biomedical studies.

Nicotinamide Riboside for improvement of chronic fatigue in hyperhidrosis and excessive sympathetic activity
Nicotinamide Riboside Study (Clinical Trial)
\$400,000
PI: Brock
Role: PI; To evaluate the efficiency of Nicotinamide Riboside for improving fatigue symptoms and functional status in patients with dysautonomia.

Pending:

10/1/18-9/30/23 Integrating multi-scale/modality imaging for quantifying lung cancer progression
U01 CA232321
NIH/NCI
\$488,238
PI: Brock/Huang/Bhujwalla
Role: PI; 1.8 calendar;

Previous:

10/1/16-6/30/17 Novel Blood/Sputum Diagnostic Test for Lung Cancer
2016-MII-3383
Maryland Innovation Initiative (MII)
\$115,000
PI: Brock
Role: PI; 0.6 calendar; This study is to perform the steps needed to move a laboratory-based test from the bench to the clinic.

1/11/12-12/31/15 Correlative Science Study for ACOSOG Z4051
169690
Duke Clinical Res Institute
\$74,182
Role: PI; 0.6 calendar; Dr. Brock's laboratory is the main Correlative Science Study for this national cooperative group trial ACOSOG Z4051.

9/5/97-11/30/15 SPORE in Lung Cancer (Project #1)
P50 CA058184
NIH/NCI
\$242,211 (NCE)
PI: Baylin
Role: Co-PI; 1.2 calendar; This project involves DNA methylation changes in cancer concerned with their translational implications for lung neoplasms.

- 9/5/97-11/30/15 SPORE Grant in Lung Cancer (Tissue Core)
P50 CA058184
NIH/NCI
\$181,969 (NCE)
PI: Baylin
Role: Co-PI; 0.6 calendar; This project involves DNA methylation changes in cancer concerned with their translational implications for lung neoplasms.
- 7/1/15-6/30/16 Lung Cancer Early Diagnosis Using Biomarkers from Multiple Platforms
JHU Discovery Award
\$100,000
PI: Huang/Brock
Role: Co-PI; 1.8 calendar
- 12/1/12-11/30/14 Bringing Epigenetic Therapy to the Forefront of Cancer Management (Supplement)
SU2C-AACR-SF1-DT0109
AACR (SU2C)
\$1,100,000
PI: Baylin/Jones
Role: Co-Inv; 1.2 calendar; Our Dream Team unites scientists at five major cancer research institutions who are poised to propel the early promise of epigenetic therapy in blood malignancies to the forefront of management for patients with breast, colon, and lung cancer.
- 5/12/10-9/30/15 The Cancer Genome Anatomy Project – The Genome of Lung Cancer
HHSN2612010000361
NCI ARRA/ TCGA
\$108,384 (NCE)
Role: PI; 1.57 calendar; This project is providing comprehensive genomic data on lung cancer specimens.
- 8/1/12-7/31/15 Advanced lung cancer screening: An individualized molecular nanotechnology approach
W81XWH-12-1-0323
US Army Medical Research
\$175,034
PI: Herman
Role: Co-Inv; 1.2 calendar; Developing technology to diagnose lung cancer early in blood and sputum that could be used with CT screening.
- 8/1/08-7/31/13 CHFR Methylation for Predicting Taxane Sensitivity in Lung and Esophageal Cancer.
R33 CA 127055
NIH/NCI
\$160,050
PI: Herman/Brock
Role: Co-PI; 1.2 calendar; These studies, for both neoadjuvant and palliative treatments, will determine the clinical utility of CHFR methylation to predict sensitivity of lung and esophageal cancer to taxanes.
- 9/28/07-6/30/13 The study of HIV infection in the etiology of lung disease (SHIELD)
R01 HL090483
NHLBI
\$542,457
PI: Kirk
Role: Co-Inv; 0.6 calendar; Using CT radiological digital/pixel changes to determine HIV patients at risk for lung cancer.
- 7/15/10-12/31/12 Recover – Tissue Source Site (TSS) Networks in Support.

WU-11-161

NIH/NCI (Subcontract: Washington University)

\$187,370

Role: PI; 1.2 calendar; Prospective tissue collection protocol to provide clinical samples to the TCGA.

- 6/1/05-5/31/12 General Clinical Research Center, Johns Hopkins School of Medicine-Project funding
Screening for Lung Cancer in the HIV Patient. (Supplement Awardee)
M01 RR002719
NIH/NCI
\$32,000 (effort only)
Role: PI; 1 calendar
- 9/30/09-8/31/11 Lung Cancer Mutation Consortium Trial.
RC2 CA148394
NIH/NCI (Subcontract: University of Colorado at Denver, PI: Bunn)
\$12,500
PI: Baylin
Role: Co-Inv; 0.12 calendar; This project aims to establish a Lung Cancer Mutation Consortium (LCMC) consisting of 13 institutions with a major interest in lung cancer and genomic testing of lung cancer as documented by having major NCI grants in lung cancer.
- 2/09-1/12 Biomarker-based pre-screening of individuals at high risk for lung cancer: A new paradigm for defining candidates for early detection by spiral CT.
The Flight Attendant Medical Research Institute
\$300,000
PI: Rudin
Role: Co-PI; 2.4 calendar; Using molecular markers to facilitate lung cancer screening in individuals at high risk for cancer.
- 7/1/07-6/30/10 A new paradigm for molecular staging of lung cancer-translating DNA Methylation to the clinic.
90029730
Society of Surgical Oncology
\$100,000
Role: PI; 1.8 calendar; Using DNA methylation of tumor and lymph nodes as a means of staging lung cancer patients molecularly.
- 2/08-1/10 Epigenetics Core Laboratory
Maryland Cigarette Restitution Fund
\$150,000
Role: PI; 1 calendar; Seed Funding and Allocation of Space in the Bloomberg School of Public Health to Develop a Core Laboratory to perform institution wide epigenetic assays
- 6/08-5/10 AACR Grant in Determining Biomarkers in Metastatic Colon Cancer.
The Jeannik M. Littlefield
\$6,000
PI: Ahuja
Role: Co-Inv; .06 calendar; This project aims to develop molecular staging for colorectal cancer and determine the therapeutic efficacy of epigenetic therapy for treatment of metastatic colorectal cancer.
- 12/1/08-11/30/10 Xenograft Modeling of Lung Cancer
Genentech Corporation
\$100,000

PI: Rudin/Brock

Role: Co-PI; 1 calendar; To develop small cell and non-small cell xenograft models of lung cancer for deep sequencing profiling

- 6/09-5/10 American Recovery and Reinvestment Act of 2009, National Consortium Grant for HIV Lung Cancer (Brock – Consortium Leader)
HHSN261201000361
NIH/NCI
\$750,000
Role: PI; 2 calendar; To Develop a National Wide Effort to Deep Sequence HIV Lung Cancer
- 12/1/09-11/30/10 Lung Cancer Database Development
Genentech Corporation
\$50,000
PI: Rudin/Brock
Role: Co-PI; 0.6 calendar; To fund infrastructure costs to annotate xenograft modeling with clinical responses.
- 9/02-8/10 Goodwin Commonwealth Funds
Sidney Kimmel Cancer Center
\$130,000
PI: Baylin
Role: Co-Inv; 2 calendar; Proposed Starting a Clinical Trial of Epigenetic Adjuvant Therapy in Lung Cancer
- 7/1/03-6/30/10 OncoMethylome Sciences
OMS
\$125,000 (effort only)
PI: Herman/Brock
Role: Co-PI; 0.6 calendar; To develop and validate Epigenetic Biomarkers in Lung Cancer.
- 5/1/05-4/30/10 The Johns Hopkins CFAR (JHU/CFAR), CFAR Developmental Pilot Grant Awardee
P30 AI42855
NIH/NCI
\$48,600
PI: Bartlett
Role: Co-Inv; 0 calendar; Awarded to assist in funding coordinators needed for patient accrual in HIV Lung Cancer screening trial
- 6/1/03-5/31/08 SPORE Grant in Lung Cancer (Career Development Awardee)
P50 CA058184
NIH/NCI
\$56,899
PI: Baylin
Role: Co-PI; 1.8 calendar; The clinical PI of Project #2 responsible for clinical data collection, data organization, tissue acquisition, and performing DNA methylation analysis.
- 6/1/03-5/31/08 SPORE Grant in Lung Cancer (Project #2)
P50 CA058184
NIH/NCI
\$167,720
PI: Baylin
Role: Co-PI; 1.8 calendar; Principal Investigator of Project #2 Johns Hopkins Lung Spore 2002, titled “Prognostic DNA Methylation Markers for Non-Small Cell Lung Cancer” to develop recurrence markers for resected lung cancer patients

- 9/04-8/06 SPORE Grant in Lung Cancer (Pilot Project Awardee)
P50 CA058184
NIH/NCI
\$11,345
PI: Baylin
Role: Co-PI; 0.5 calendar; Screening for correlative studies in clinical trial of Lung Cancer in the HIV Patient
- 7/1/05-6/30/08 Career Development Award
Thoracic Surgery Foundation Research Excellence
\$75,000
Role: PI; 9 calendar; Awarded with the K23 mechanism to carry out CT screening studies in HIV patients
- 9/1/05-8/31/08 Screening for Lung Cancer in the HIV Patient
K23 CA117820
NIH/NCI
\$129,750
Role: PI; 9 calendar; To determine the differences in stage distribution of HIV-seropositive patients at lung cancer diagnosis between those who are screened by spiral CT and historic controls.
- 9/1/06-8/31/07 SPORE Grant in Lung Cancer (Supplement Awardee)
P50 CA058184
NIH/NCI
\$49,374
PI: Baylin
Role: Co-Inv; 0 calendar; Awarded to develop a national databank of HIV positive lung cancer cases
- 1/1/01-1/1/02 Alexander and Margaret Stewart Trust Award
Sidney Kimmel Cancer Center
\$40,000
Role: PI; 0 calendar; Since no start-up funding was given to Dr. Brock as part of his recruitment package to surgery, grant awarded as a mechanism to hire a laboratory technician
- 9/1/01-8/31/04 Integrated Development of Novel Molecular Markers (Brock-Minority Supplement Awardee)
5U01 CA84986
NIH/NCI (Supplement)
\$108,000
PI: Sidransky
Role: Co-Inv; 9 calendar; The minority supplement was granted to develop prognostic markers for lung cancer recurrence after presumed complete surgical resection.

Research Program Building / Leadership

- 2000-present Principal Investigator and Developer of the SPORE Lung Cancer Database
- 2003-present Principal Investigator and Developer of the Cancer Center Esophageal Cancer Database
- 2008-present Co-Principal Investigator Lung Cancer SPORE Tissue Core Biospecimen Database
- 2008-2010 Developer and Co-Director of the Johns Hopkins Epigenetics Core Laboratory located in the Bloomberg School of Public Health
- 2012-present Director and Founder of the Johns Hopkins Center for Sweat Disorders

EDUCATIONAL ACTIVITIES

Educational Publications

Peer Reviewed Publications

1. **Brock MV**, Bouvet M. Writing a successful NIH Mentored Career Development Grant (K award): hints for the junior faculty surgeon. *Ann Surg*. 2010;251(6):1013-7. NIHMSID# 580159

Editorials

1. Schwartz G, Brock MV. In *Lung Cancer Frontiers Issue 55* (in print)

Case Reports

1. Zaas D, **Brock M**, Yang S, Sylvester JT. An uncommon mimic of an acute asthma exacerbation. *Chest*. 2002;121(5):1707-9.
2. Weiss ES, Doty J, **Brock MV**, Halvorson L, Yang SC. A case of ectopic parathyroid hormone production by a pulmonary neoplasm. *J Thorac Cardiovasc Surg*. 2006;131(4):923-4.

Letters, correspondence

1. **Brock MV**, Herman JG, Baylin SB. DNA Methylation in Lung Cancer. Authors Reply – Letters to the Editor. *NEJM* June 5, 2008, pp 2513-14.

Book Chapters, Monographs

1. “Hemorrhagic Shock and Hypervolemic Cardiac Arrest” **Brock MV**, Cameron DE in *Cardiac Arrest: The Science and Practice of Resuscitation Medicine*. Paradis NA, Halperin HR, Nowak RM (eds), Williams and Wilkins 1996:727-44.
2. “Pleural Effusions, Pneumothorax, and Emphysema” **Brock MV** in *Pocket General Surgery*. Lillemoe KD, Schulick RD (eds). Pocketmedicine.com 2004.
3. “Empyema” **Brock MV** in *Pocket General Surgery*. Lillemoe KD, Schulick RD (eds). Pocketmedicine.com 2004.
4. “Esophageal Duplication Cysts” **Brock MV** in *Current Therapy in Thoracic and Cardiovascular Surgery*. Yang SC, Cameron D (eds). 2004; 448-451.
5. “Pulmonary Sequestrations.” Are C, **Brock MV** in *Current Therapy in Thoracic and Cardiovascular Surgery*. Yang SC, Cameron D (eds). 2004;142-143.
6. “Diagnosis and Management of Pleural Metastases in Breast Cancer” Yung RCW, **Brock MV**. in *The Breast: Comprehensive Management of Benign and Malignant Disorders*. 3rd Ed. Bland KI, Copeland EM, Davidson N (eds). 2004;1395-1406.
7. “Neoadjuvant and Adjuvant Therapy of Esophageal Cancer” **Brock MV** in *Current Surgical Therapy*. 8th Ed. Cameron JL (ed). 2004;55-57.
8. **Brock MV**, Mason D, Yang, SC: “Thoracic Trauma” in *Surgery of the Chest*. Selke F, Swanson S, del Nido P (eds). Philadelphia, Elsevier Science, 2004.
9. “Gastroesophageal Reflux and Esophageal Dysmotility” **Brock MV** in *The Johns Hopkins Manual of Cardiothoracic Surgery*. Baumgartner W, Yuh D, Vricella L (eds). 2006; 241-266
10. “Esophageal Stents” **Brock MV** in *Current Surgical Therapy*. 9th Ed. Cameron JL (ed). 2007
11. “Cancer of the Esophagus,” Kleinberg LR, **Brock MV**, Jagannath S, Forastiere A. In *Abeloff’s Clinical Oncology* 4th Ed. Abeloff MD, Armitage JO, Niederhuber JE, Kastan MB, McKenna WG (eds). 2008;1399-1429.
12. “DNA Methylation in Lung Cancer” **Brock MV**, Herman JG, Baylin SB. Authors Reply – Letters to the Editor. *NEJM* June 5, 2008;2513-14.
13. “Malignant Effusions in the Chest” **Brock MV** in Ettinger DS, Donehower R. *Current Cancer Therapeutics* 5th Ed, 2008.
14. “The Biology of Epithelial Esophageal Cancer” Eric Weiss, Avedis Meneshian, **Brock MV** in *Esophageal Tumors: Principles and Practices*. Jobe, Thomas, Hunter and Tran (eds). 2008.
15. *The Johns Hopkins ABSITE Review Manual*. Nazarian S, Meguid RA, Lipsett PA (eds), Contributing Editor: **Brock, MV**. Lippincott Williams & Wilkins, Philadelphia 2008.
16. “Beyond Traditional Paradigms in Disparities Research.” **Brock M**, Alberg AJ, Glass T, LaVeist TA, Baylin S, Levine D, Fox CE. *eHealth Solutions for Healthcare Disparities* 2008;129-144.

17. "Video Thoroscopic Surgery" Amgad Elsherif, **Brock MV** in Current Surgical Therapy 10th Ed. Cameron JL, Cameron A (eds), 2010:1296-1303.
18. "Role for Surgical Treatment of Local Small Cell Lung Cancer." Harris J, **Brock MV**. Lung Cancer: A Multidisciplinary Approach to Diagnosis and Management. Kernstine K, Reckamp K, Thomas C. 2010.
19. "Benign Tumors and Cysts of the Esophagus." Heitmiller RF, **Brock MV**. Shackelford's Surgery of the Alimentary Tract. 7th Ed. 2011.
20. "Pleural Effusions, Pneumothorax, and Emphysema." **Brock MV**, in Pocket General Surgery. 2nd Ed. Lillemoe KD, Schulick RD (eds). Pocketmedicine.com 2011.
21. "Empyema" **Brock MV**, in Pocket General Surgery. 2nd Ed. Lillemoe KD, Schulick RD (eds). Pocketmedicine.com 2011.
22. "Esophagus" Model L, Cheong E, **Brock MV** in General surgery, outpatient decision. 3rd Ed. Gaunt ME, Dardik A (eds). Arnold, London 2011.
23. "Chest Wall Tumors." Meguid R, **Brock MV**. 2nd Ed. The Johns Hopkins Manual of Cardiothoracic Surgery. Yang S, Yuh D (eds). 2012.
24. Thoracic Sympathectomy and Focal Hyperhidrosis, Teran M, **Brock MV**. 2nd Ed. The Johns Hopkins Manual of Cardiothoracic Surgery. Yang S, Yuh D (eds). 2012.
25. The American College of Chest Physicians 3rd Ed. Lung Cancer Guidelines. Epidemiology Alberg A, Samet J, **Brock MV**, Ford J.
26. "Emerging Therapies for Esophageal Cancer" Orita H, **Brock MV**, Sato K. in Esophageal Cancer – Cell and Molecular Biology , Biomarkers, Nutrition and Treatment. Jazii FR (ed). Intech. 2012
27. "Writing a Grant/obtaining Funding" **Brock MV**, Text of Fundamentals of Surgical Research Course. 4th Ed. Chen H, Kao L (ed). 2012.
28. "Paraesophageal Hiatal Hernia" Molena, D, Benedetto, M. **Brock MV** in Current Surgical Therapy. 11th Ed. Cameron JL, Cameron A (eds). 2013.
29. "Barretts Esophagus," Teran M, **Brock MV** in Current Surgical Therapy. 11th Ed. Cameron JL, Cameron A (eds). 2013.
30. "Epidemiology of Lung Cancer." Alberg A, **Brock MV**, Samet J. in Murray & Nadel's Textbook of Respiratory Medicine. 6th Ed, Broaddus V. Courtney BV (ed) 2014. Chapter 52
31. "Epigenetics in Cancer for Surgeons." Teran M, **Brock MV**. in McGraw-Hill Textbook of Complex General Surgical Oncology 2014.
32. Teran M, Ronan K, **Brock MV**. Molecular Mechanisms of Esophageal Cancer. 4th Ed. Elsevier, 2014. Chap 31

Books, Textbooks

1. Biotechnology in Japan Routledge, U.K. 1989, 176pp

Other media

- | | |
|--------------|--|
| 2000 | Featured prominently on Hopkins 24/7 on ABC performing a Lung Transplant Harvest |
| 2006-present | Multiple guest appearances on radio and television discussing Health Matters in Bermuda |
| 2010-2013 | Medical Director for the Johns Hopkins Urban Health Radio Program broadcast in Baltimore and Bermuda. Featured guest and commentator on multiple occasions |
| 2011-2012 | Featured on PBS Special entitled, "William Stewart Halsted – the Most Innovative American Surgeon" |
| 2011-2012 | Host a Weekly Segment on a Children's Show, "Mean Mrs. Brown and the Kool Kidz 4 Change," entitled, "Medical Moments with Dr. Brock" |
| 2012 | Hyperhidrosis – Webinar, "Do you Suffer from Excessive Sweating" |
| 2014 | Hyperhidrosis – Webinar, "Do you Suffer from Excessive Axillary Sweating" |
| 2014 | Bermuda Radio – Gina Spence's Community Voices |
| 2014 | Bermuda TV – Nightly News of Bermuda Broadcasting Company |
| 2014 | National Public Radio Show Interview (Metro Connection), "Center for Sweat Disorders - Hyperhidrosis" |

Teaching

Classroom instruction

- | | |
|------|---|
| 2000 | Conducted Medical School discussions in Physicians in Society Course on the topic of "Physicians in the Media" after the Hopkins 24-7 episode. Johns Hopkins Medical Students |
|------|---|

- 2001-present Quarterly General Surgery Clerkship Lectures for Medical Students in Benign and Malignant Esophageal Surgery. Johns Hopkins, Baltimore, MD
- 2002-2009 Annual Lecture for First Year Medical School Anatomy Course-Clinical Correlation. Johns Hopkins School of Medicine, Baltimore, MD
- 2003-2012 Annual Lecture in the Advanced Diagnostics and Therapeutics Course. Johns Hopkins School of Nursing, Baltimore, MD
- 2004-2012 Lectures on the Diagnosis and Treatment of Benign and Malignant Pleural Effusions Johns Hopkins Physician Assistants, Baltimore, MD
- 2005-present Annual Lecturer for 180.650 Fundamentals in Clinical Oncology for Public Health Practitioners – An Introduction to Cancer for Public Health Students. Johns Hopkins Bloomberg School of Public Health, Baltimore MD.
- 2011 Lecturer, Clinical Registry Workshop, Institute for Clinical and Translational Research
- 2011-present Annual Lecture in Advanced Therapeutics Course on the Theory and Practice of Performing Bedside Thoracic Procedures. University of Maryland School of Nursing, Baltimore, MD

Clinical instruction

- 2000-2003 Administered the general surgery oral examination for medical students, Johns Hopkins Medical School, Baltimore, MD
- 2002-2009 Quarterly Surgery Preceptor for Medical Students in General Surgery, Johns Hopkins Medical School, Baltimore, MD [2002-2004; 2009]

CME instruction

- 2001 Advances in Multi-Modality Management of Lung Cancer, lecturer, Baltimore MD
- 2003 MD Anderson Hospital, “Lung Cancer,” lecturer, Orlando, FL
- 2003 Morton Plant Hospital (Moffitt Affiliate), “Lung Cancer” Tampa, FL
- 2004 “Early Stage Lung Cancer,” lecturer, Miami, FL
- 2008 “Advances in Lung Cancer,” lecturer, King Edward Memorial Hospital, Hamilton, Bermuda
- 2008 “Advances in Esophageal Cancer,” lecturer, King Edward Memorial Hospital, Hamilton, Bermuda

Workshops/Seminars

- 2002 “The Surgical Clinician” Scientist, Invited Lecturer, NCI/NIH Washington, DC
- 2002 Pre-health Professions Evening Conversation Series, Invited Lecture, Johns Hopkins Undergraduate Campus, Baltimore, MD
- 2002 American College of Surgeons Oncology Group Workshop, “DNA Methylation in Medicine,” Invited Lecturer, Phoenix, Arizona
- 2004 American College of Surgeons Oncology Group Workshop, “DNA Methylation and Molecular Staging,” Invited Lecturer, Miami Beach, Florida
- 2004 Hopkins-Howard Oncology Research Symposium, “Epigenetics and Cancer,” Washington, DC
- 2010 Royal Australasian College of Surgeons, Co Chair Session and Workshop Leader. Perth, Invited Speaker, Australia
- 2010 Center to Reduce Cancer Center Health Disparities Physician-Scientist Forum at the Professional Development Workshop, Invited Speaker, Rockville, Maryland
- 2010 K Award Hints, Association of Academic Surgeons, Career Development Course, Invited Lecturer, Washington, DC
- 2010 Johns Hopkins Executive Briefing: New Advances in Men’s Health, Invited Lecturer, Hilton Hotel, Baltimore, MD
- 2011 General Thoracic Surgery Club, Lung Cancer Clinical Trials in Thoracic Surgery, Invited Presenter, Captiva Island, FL
- 2011 Speaker, Johns Hopkins, The 17th Annual A Woman’s Journey Seminar, “Men’s Journey,” Baltimore, MD
- 2011 Festschrift for Charles Balch, Invited Discussant, Johns Hopkins, Baltimore, MD
- 2013 Association of Academic Surgeons/Society of University Surgeons Inaugural Surgical Investigators’ Course: The Grant Writing Workshop, Invited Speaker, New Orleans, LA.

Mentoring

Advisees

- 2000-2001 Are Chandrakath, MD, Postdoc, Esophageal Cancer Polyps; currently Professor of Surgical Oncology, University Nebraska Medical Center
- 2001-2002 Min Kim, B.S, Predoctoral Student, Lung Cancer in Octogenarians; currently Head of Thoracic Surgery, Houston Methodist Hospital
- 2002-2003 Leonard Sowah, MD, Postdoctoral Fellow, Socioeconomic Status and Lung Cancer; currently Attending Medical Internist, Chase Braxton Clinic
- 2002-2004 Nima Naghshineh, B.S., Predoctoral Student, Lung Cancer in Patients under 40 years old; currently Plastics Surgery Resident, Clinical Scientist Training Program, University of Pittsburgh
- 2002-2012 Craig Hooker, M.P.H., Predoctoral Student, HIV and Lung Cancer; Epidemiology of Lung and Esophageal Cancer; currently Instructor, Johns Hopkins School of Medicine
- 2003-2004 Eric Syphard, B.S., Predoctoral Student, Profiling of Lung Cancer Xenografts; currently Chief Technologist, Booze Allen Hamilton.
- 2003-2004 Pierre Theodore, MD, Postdoc, Afro-Americans and Esophageal Cancer; currently Associate Professor of Surgery, University of California San Francisco
- 2003-2006 Stephen Ames, B.S., Predoctoral Student, HIV and Lung Cancer; currently Consultant, Oncology Biotech Firm
- 2005 William Yang, High School, Predoctoral Student, Lung Cancer Database Work; currently Biology Major; University of MD
- 2006 Nicholas Theodosakis, High School, Predoctoral Student, Lung Cancer Database Work; currently MD-PhD Student, Yale University School of Medicine
- 2006 Remealle How, MD, Predoc, Neoadjuvant Esophageal Cancer; currently General Surgical Resident, University of Pittsburgh
- 2006-2009 Robert Meguid, MD, Postdoctoral Fellow, Outcomes in Esophageal and Lung Cancer; currently Assistant Professor, University of Colorado
- 2007 Sue Lee, B.S., Predoctoral Student, HIV in Lung Cancer; currently Graduate Student, Cell Biology and Physiology University of Pennsylvania
- 2008-2009 Yvonne Carter, MD, Postdoctoral Fellow, HIV and Lung Cancer; currently Thoracic Surgeon at Sinai Hospital, Baltimore
- 2009 Joshua Taylor, B.S., Predoctoral Student, Esophageal Cancer; currently General Surgical Resident, Vanderbilt University
- 2009-2010 James Harris, MD, Postdoctoral Fellow, Epigenetic Therapy and Lung Cancer; currently Assistant Professor of Surgery, Johns Hopkins University School of Medicine
- 2009-2014 John Wrangle, MD, Postdoctoral Fellow, Epigenetic Profiling of Lung and Esophageal Cancer; currently Assistant Professor, Medical College of South Carolina
- 2010-2012 James Shin, B.S., Predoctoral Student, Epigenetic Profiling of Lung Cancer; currently Pathology Technician, Johns Hopkins
- 2010-2011 Vasudev Bailey, Biomedical Engineering doctoral student, now Principal at Quid, a big data company, received a 2010 Siebel Scholar Award
- 2010-2011 Brian Keely, undergraduate student in the Whiting Engineering School, currently for a non profit, the Grand Rapids Red Project
- 2010-2017 Alicia Hulbert, MD, Postdoctoral Fellow, HIV and Lung Cancer; currently Research Fellow in Thoracic Oncology, Johns Hopkins
- 2011-2012 Kelvin Liu, Biomedical Engineering doctoral student, received a 2011 Siebel Scholar Award, currently Biotech entrepreneur and CEO of Circulomics based on the Nanotech Research
- 2010-2012 Du Zhenzhong, MD, Postdoctoral Fellow, Epigenetic Therapy in Lung Cancer; currently Professor and Director of Surgery, Guilin University
- 2011-2014 Luckson Mathieu, MD, Postdoctoral Fellow, Cancer Disparities; currently Research Fellow in Thoracic Oncology, Johns Hopkins
- 2011-2014 Mario Teran, MD, Postdoctoral Fellow, Epigenetic Therapy and Lung Cancer; currently Research Fellow in Thoracic Oncology, Johns Hopkins
- 2012-2013 Kai Ma, MD, Postdoctoral Fellow, Epigenetic Therapy in Esophageal Cancer; currently Assistant Professor at Fuwai Hospital in China

2012-2014 Solange Cox, MD, Predoctoral Student, Global Lung Cancer Epidemiology and Disparities, currently General Surgery Resident PGY3, Sinai Hospital

2013-2016 Candace Griffin, currently Sr. Research Program Coordinator at Johns Hopkins University Cancer Immunology/GI Clinical Research

2014-2016 Kiichi Sugimoto, MD, Postdoctoral Fellow, Epigenetic Therapy and Lung Cancer; currently Attending Surgeon in Coloproctological Surgery, Juntendo University

2014-2017 Zhihao Lu, MD, Postdoctoral Fellow, Epigenetic Therapy and Lung Cancer; currently Research Fellow in Thoracic Oncology, Johns Hopkins

2014-2016 Chen Chen, MD, Postdoctoral Fellow, Early Detection of Lung Cancer Recurrent; currently Attending Surgeon in Thoracic Surgery, The Second Xiangya Hospital, Central South University

2015-2016 Foteinos-Ioannis D. Dimitrakopoulos, MD, Postdoctoral Fellow, currently Clinical Resident at the University of Patras, Greece

2015-2016 Anastasia Kottorou, MD, Postdoctoral Fellow, currently Fellow at the University of Patras, Greece

2016-present Tomoaki Ito, Postdoctoral Fellow,

2016-2017 Weiqiang Zhang, Postdoctoral Fellow

2017-present Matthew Garner, Postdoctoral Fellow, T32; at Johns Hopkins University

2017-present Nadege Fackche, Postdoctoral Fellow, T32 at Johns Hopkins University

2017-present Yuping Mei, Research Associate at Johns Hopkins University

Primary Mentor For the Following Mentored Career Development Grants and National Mentored Awards

2007-2010 Robert Meguid

2007 Winner of J. Maxwell Chamberlain Memorial Paper Award for Best General Thoracic Surgery Paper at the STS 2007

2007 Winner of the Thoracic Surgery Directors Association Resident Research Award

2008-2010 NIH Loan Repayment Program, \$70,000

2008-2011 Yvonne Carter - NIH Loan Repayment Program, \$105,000

2010-2012 Alicia Hulbert

2010-2012 NIH Loan Repayment Program, \$70,000

2011 AACR Minority Research Scholar Award

2010-2013 James Harris

2010 Peter C. Pairolero Scholarship in Thoracic Surgery

2011-2013 NIH Loan Repayment Program, \$70,000

2011 AACR Minority Research Scholar Award

2011 Resident Abstract Top Prize Baltimore Academy of Surgeons

2011 First Place Johns Hopkins Surgery Department Resident Research Award

2011 James Shin - Second Place in Johns Hopkins Surgery Department Medical Student Competition 2011 (competed as an undergraduate)

2011-2012 Solange Cox - Deans Research Grant Recipient – Brock (Primary Mentor)

2012-2014 Mathieu Luckson - NIH Loan Repayment Program, \$70,000

2012-2014 Mario Teran - T-32 Grant Recipient – Brock (Primary Mentor)

Thesis committees

2009 John Wrangle, MD Instructor, Primary Advisor

2010 Luckson Mathieu, MD, Oncology Fellow, Primary Advisor

2010 Craig Hooker, PhD Epidemiology, Primary Advisor

2017 Alexandro Stark, PhD Engineering, Chair of Examining Committee

Training grant participation

2008-2013 NCI Surgical Oncology T32
 PI: Steven Leach
 Role: Senior Preceptor, Currently preceptor for Dr Mario Teran supported by T-32

Educational Program Building / Leadership

2010-2011 **Urban Leadership Foundation, Inc.** – Organized a Semester Long Weekly Afterschool Science Lecture Program for Middle School Students From Local Schools Around East Baltimore. This involved recruiting and organizing Johns Hopkins Surgical Faculty to give biology and anatomy lessons at the Urban Leadership Center located 2 blocks from Johns Hopkins. Culminated in Middle School Students Performing Surgery on Pigs at Johns Hopkins in a Surgical Laboratory Setting.

Educational Extramural Funding None

CLINICAL ACTIVITIES

Certification

Medical, other state/government licensure

1993 Maryland D 44406

2000 Federal DEA BB#3836547

Boards, other specialty certification

2000 Board Certified: American Board of General Surgery Cert. #45,215

2003 Board Certified: American Board of Thoracic Surgery Cert. #6763

2013 Board Re-certified: American Board of Thoracic Surgery Cert. #6763

Clinical (Service) Responsibilities

2000-present Full time faculty Thoracic Surgeon at Johns Hopkins Hospital and Bayview Medical Center performing surgery at both hospitals:

2000-present Clinic, Operative, Clinical Conference Time: 2 full days per week;

2000-2008 Clinical coverage on-call time: every third night

2008-2009 Clinical coverage on-call time: 155 days

2008-2011 Clinical coverage on-call time: every fifth night

2011-2013 Clinical coverage on-call time: every third night

2013-present Clinical coverage on call time: every fourth night

Clinical Program Building / Leadership

2013 Center for Sweat Disorders, Co-founder

2013 First MiraDry Device Acquisition in the State of Maryland, Signed lease agreement with Miramar Labs, Inc

2013 Center's first clinical trial – Evaluation of the psychology impact of a Novel Microwave Thermolysis Device for the Treatment of Axillary Hyperhidrosis.

Clinical Extramural Funding (current, pending, previous) None

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

System Innovation and Quality Improvement efforts within Johns Hopkins International:

2000-present Served as Johns Hopkins International Bermuda Strategic Relationship Liaison Physician. In this role, was instrumental in facilitating referrals, visiting Bermudian inpatients, and working with Hopkins physicians taking care of Bermudians. Also, hosted multiple public affair events for Johns Hopkins in Bermuda.

1987-2000 Worked with Dr Lawrence Griffith in facilitating referrals from Bermuda, visiting Bermudian patients and visiting Bermuda on behalf of Johns Hopkins.

System Innovation and Quality Improvement efforts outside of JHM:

2006-2008 Served on a team that designed and developed the policy and plan for new healthcare system and a hospital design in Bermuda. This includes implementation of a hospitalist system, changing

- forms of reimbursement, and designing plans for a new physical plant. Today in 2014, the new hospital plant is almost finished.
- 2014-present On behalf of the Bermuda Wellness Trust and the Bermuda Hospitals Board, primary author on a policy plan for promoting wellness in Bermuda by creating a longitudinal cohort study for the entire population modeled after the Framingham Longitudinal Study for Heart Disease.

System Innovation and Quality Improvement Program Building/Leadership:

- 2000-present Developed the Lung Cancer SPORE database and the Esophageal Cancer database that has been the main dataset for over 50 published articles including many by Johns Hopkins Medical Students.
- 2005 Organized the first meeting of BEST-the Baltimore Esophageal Study Team consisting of 30 physicians involved in esophageal care in the MD-Washington, DC area.
- 2007-present Developed a Lung Cancer SPORE longitudinal collection of over 15,000 samples including tumor, lymph nodes, sputum, and blood. Longitudinal collection of blood and sputum continues from day of surgery until patient recurs or expires.
- 2008-2010 Developer and Co-Director of Johns Hopkins Epigenetics Core Laboratory in the Bloomberg School of Public Health. Established a laboratory with the aim of CLIA certification to assay epigenetic markers for clinical trials.
- 2010-present Co-Launched with Dean Brian Gibbs of the Office for Diversity and Cultural Competence a weekly radio talk show aimed to the local minority community - the Johns Hopkins Urban Radio Initiative, "Johns Hopkins Urban Health"
- 2010-2014 Co-Founded and served as Co-Producer and Medical Director of the Johns Hopkins Urban Radio Show. Show ran weekly for 3 years in Baltimore with Dr. Brock responsible for securing all the Hopkins faculty who were interviewed as subject matter experts.
- 2012-present Organizer of the World's First International Conference on Healthcare Disparities in Surgical Outcomes on Behalf of the Society of Black Academic Surgeons
- 2013-present Established a multidisciplinary Sweat Disorders Center at Johns Hopkins incorporating dermatology, psychology, anesthesia, and surgery (www.hopkinsmedicine.org/sweat_disorders/). Large multidisciplinary effort to treat hyperhidrosis as a disease focusing on the idea that 2% anxiety and depression from hyperhidrosis is misdiagnosed and undertreated.
- 2013-2014 Responsible for expanding the Johns Hopkins Urban Medical show to Bermuda where it became the number one health care show on the air.

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

- 2003-2005 Member, Department of Oncology, IT Committee
- 2004-2005 Member, Department of Surgery, IT Committee
- 2005-present Chair, Department of Surgery Diversity Committee
- 2006-present Member, Associate Professor Promotion Committee Johns Hopkins School of Medicine
- 2006-present Member, Johns Hopkins University Biospecimen Processing and Storage Committee
- 2006-2008 Member, Search Committee for New Director of the Sidney Kimmel Comprehensive Cancer Center
- 2007 Member, Johns Hopkins School of Medicine Diversity Retreat, St Michaels, MD
- 2008 Member, Johns Hopkins School of Medicine Faculty Leadership Retreat, St Michaels, MD
- 2009-2012 Member, Clinical Research Review Committee (IRB) for Sidney Kimmel Cancer Center
- 2010-present Member of Institute for Clinical and Translational Research (ICTR) Clinical Registry Workshop Working Group
- 2010-present Member of the International Center for Personalized Cancer Medicine Working Group
- 2012 Innovative Learning Environment SME Strategic Planning Committee for School of Medicine
- 2013-present Member, Sidney Kimmel Cancer Registry Committee
- 2013 Member, Strategic Planning Advisory Group to the Dean on the Discovery Mission Imperative of the School of Medicine – Advancing the Frontier of Biomedical Science
- 2013-present Member Department of Surgery EPIC Steering Committee
- 2014-present Serve on the Patient Complaint Monitoring Committee of the School of Medicine

Editorial Activities

Editorial Board Appointments

2011-present Lung Cancer Frontiers Editorial Board
2013-present Associate Editor, Journal of Surgical Research

Journal peer review activities

2001-present Annals of Thoracic Surgery
2003-present Cancer Research
2003-present Chest
2003-present Clinical Cancer Research
2003-present Journal of Clinical Oncology
2005-present JAMA Surgery (Formerly Archives of Surgery)
2005-present Journal of Laparoendoscopic and Advanced Surgical Techniques
2005-present Journal of Thoracic Oncology
2005-present Journal of Thoracic and Cardiovascular Surgery
2006-present Cancer
2006-present Cancer Investigation
2006-present Diseases of the Esophagus
2006-present International Journal of Cancer
2006-present Lung Cancer
2007-present Respiriology
2009-present Annals of Surgery
2009-present Molecular Cancer Therapeutics
2010-present Journal of AIDS
2010-present Journal of Surgical Oncology
2010-present Pharmaceuticals
2011-present Annals of Surgical Oncology
2011-present Clinical Lung Cancer
2012-present American Journal of Surgery
2012-present Molecular Cell
2012-present Nature Reviews

Advisory Committees, Review Groups/Study Sections

2006-2011 NCI Study Section J–Population and Patient-Oriented K Awards Training Grants, Full Member
2010 NCI Study Section ZCA1 SRLB-3 M1 B, The Early Detection Research Network March: Clinical Validation Centers, Ad Hoc Reviewer
2011 NCI Special Emphasis Panel (SEP) Study Section Loan Repayment Program, Ad Hoc Reviewer
2011 National Lung Cancer Partnership Grants. Ad Hoc Reviewer
2012 The State of Pennsylvania Department of Health Final Performance Non-Formula Grants, Ad Hoc Reviewer
2013 NCI Special Emphasis Panel (SEP) Study Section Loan Repayment Program, Ad Hoc Reviewer
2014 NCI-I Transition to Independence Committee Meeting – Ad Hoc Reviewer K99 and K25 Career Development Awards
2014 AATS Graham Foundation – Member Cardiothoracic Surgical Investigator Review Committee
2016 NIH – Cancer Health Disparity/Workforce Diversity Reviewer
2016 NCI Intramural Research Program, Thoracic and GI Oncology Branch, Reviewer
2016 CDMRP LCRP ITR Peer Review Panel

Professional Societies

2000-present Active Member, Society of Black Academic Surgeons (SBAS)
2007-2013 Member of the SBAS Executive Council
2008-2011 Liaison to the Association of Academic Surgeons
2010-2013 National Secretary, Member of the SBAS Executive Council
2012 Chairman of the National SBAS Meeting Conference Committee

- 2001-present Active Member, Association of Academic Surgeons (AAS)
 2008-2011 Executive Council Member of the Association of Academic Surgeons
- 2001-present Active Member, Johns Hopkins Medical and Surgical Society -
- 2003-present Association of Black Cardiovascular & Thoracic Surgeons-Active Member (ABCTS)
 2011-present National President, ABCTS
- 2003-2011 Active Member, American College of Surgeons Oncology Group (ACOSOG)
 2006-2011 Member of Protocol Review and Prioritization Committee of the ACOSOG
 2008-2011 Vice Chair of Thoracic Committee of ACOSOG
 2009-2011 Member of Correlative Science Review Committee of ACOSOG
 2010-2011 Member of the ACOSOG Search Committee for Thoracic Committee Chair
- 2003-present Active Member, Society of Thoracic Surgeons (STS)
 2011-2012 Planning Committee for the Formation of a STS Working Group on Hyperhidrosis
- 2004-present Active Member, American Association of Cancer Researchers (AACR)
 1/05-4/05 AACR-Minorities In Cancer Research Minority Scholar Award Program
 20th Anniversary Committee
 2012 Fifth AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved Organizing Committee
 2012 Fifth AACR Conference on the Science of Cancer Health Disparities: Selection Committee for the AACR Distinguished Lectureship on the Science of Cancer Health Disparities, funded by Susan G. Komen for the Cure®
 2012-present Active Member, AACR Minorities in Cancer Research Council
 2014 Seventh AACR Conference on the Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved
- 2005-present Active Member, International Association for the Study of Lung Cancer (IASLC)
- 2007-present Active Member, Society of University Surgeons (SUS)
- 2008-present Fellow, American College of Surgeons (ACS)
 2010-present Member, American College of Surgery Maryland Committee on Applicants
- 2009-present Active Member, Association of Academic Thoracic Surgeons
- 2009-present General Thoracic Biology Club – Active Member
- 2010-present General Thoracic Surgery Club - Active Member
- 2010-present General Surgical Biology Club II- Active Member
- 2010-present Southern Thoracic Surgical Association- Active Member
- 2014-present Active Member, American Surgical Association

Conference Organizer, Session Chair

- 2003 Session Chair, 13th Annual Society of Black Academic Surgeons, Birmingham, AL
- 2004 Session Chair, 14th Annual Society of Black Academic Surgeons, Washington, DC.
- 2005 Conference Organizer, First Baltimore Esophageal Study Team (BEST), Mt Washington Conference Center, Baltimore, MD.
- 2006 Session Invited Discussant, American Association of Thoracic Surgeons, Philadelphia, PA.
- 2009 Session Invited Discussant, American College of Surgeons Clinical Congress, Chicago, IL
- 2011 Invited Moderator, Association of Academic Surgeons Surgical Congress – Thoracic Surgery Session, San Diego, CA.
- 2012 Conference Organizer, 22nd Society of Black Academic Surgeons Annual Meeting, Baltimore
- 2013 Conference Organizer and Speaker, Society of Thoracic Surgeons Disparities in Outcomes Among Underrepresented Minorities, Los Angeles, CA

Consultantships

- 2006 Invited Consultant, OncoMethylome Sciences Scientific Advisory Board Meeting, Washington DC.
- 2008 Invited Testimony on Lung Cancer, Maryland Legislature, Budget and Taxation Committee, Annapolis, MD.
- 2008 Roundtable Discussion on Clinical Trials, Senator Ulysses Currie, Annapolis, MD.
- 2009 Invited Consultant, IMS Health: U.S. Policy Roundtable Advisory Board, Washington, D.C.
- 2009 Invited Consultant, IMS Health: Lung Cancer Advisory Board Atlanta, GA.

RECOGNITION

Awards

1980	Valedictorian of High School, Warwick Academy, Bermuda
1980	Rotary Scholarship to Japan, Bermuda Rotary Club
1982	Most Outstanding Teen of Bermuda Award, Bermuda Teen Services (Received the Inaugural Award that is now in its 32 nd Year)
1982	Scholarship for Undergraduate Studies, Federation of the Daughters of the Empire
1984	Sir Henry Tucker University Scholarship for Undergraduate Studies, Bank of Bermuda
1985	Rhodes Scholarship, Rhodes House, Oxford University, U.K.
1985	Bermuda Government Scholarship, Bermuda Government
1986	Storry Memorial Fellowship, Oxford University, U.K.
1986	Sasagawa Japanese Research Bursary, Oxford University, U.K.
1987	Sir John W. Cox Scholarship for Postgraduate Medical Studies, Bank of Bermuda
1995	George Zeidema Resident Research Award for General Surgery (first place), Johns Hopkins
1995	Talalay Research Award for Cardiothoracic Surgical Residents' Research (first place), Johns Hopkins
1995	Resident Research Prize, Baltimore Academy of Surgeons
2000	Transplantation Clinical Research Award, Johns Hopkins
2000	Member of Alpha Omega Alpha Honor Society, Johns Hopkins
2001	Alexander and Margaret Stewart Trust Funding Award, Sidney Kimmel Cancer Center
2001	Science of Clinical Investigation Certificate, Johns Hopkins Bloomberg School of Public Health
2005	Thoracic Surgery Foundation for Research Excellence Award, Johns Hopkins
2005	Center For AIDS Research Pilot Award, Bloomberg School of Public Health.
2005	General Clinical Research Center Award, Johns Hopkins
2007	Society of Surgical Oncology Clinical Investigator Award, Society of Surgical Oncology
2008	Nominated by Dean and Participated in Year Long Course of Johns Hopkins Leadership Development Program, Johns Hopkins
2008	Awarded Top Referee for Respirology Journal
2011-2012	The James IV Travelling Fellowship of the James IV Association of Surgeons
2012	Honorary Fellow of the Bermuda College – the Highest Honor the College Bestows on an Individual – Youngest Person ever awarded, Bermuda
2013	Lifetime Achievement Award in Medicine, Bermuda Healthcare Foundation
2014	Faculty Advising Award, MPH Program Office & Center for Global Health, Johns Hopkins University

Honor Societies/Honors

2000-present	Alpha Omega Alpha
2007-present	Featured in the National Library of Medicine's National Travelling Exhibition, "Opening Doors: Contemporary African American Academic Surgeons"

Invited Talks, Panels

5/95	Speaker, Johns Hopkins Hospital Surgical Grand Rounds-George Zeidema Award for Most Outstanding General Surgical Resident Research.
6/95	Talalay Research Award for Most Outstanding Cardiothoracic Surgical Resident Research "Hypothermic Circulating Arrest and Neurotoxicity due to Nitric Oxide," Baltimore, MD
1/01	Speaker, Johns Hopkins Hospital Surgical Grand Rounds, "Lung Cancer," Baltimore, MD
2/01	Speaker, Johns Hopkins Hospital Medical Grand Rounds, "Lung Cancer," Baltimore, MD
3/01	Speaker, Johns Hopkins Hospital Oncology Research Rounds, "Lung Cancer," Baltimore, MD
4/01	Speaker, Union Memorial Hospital Ground Rounds, "Advances in Multi-Modality Management of Lung Cancer," Baltimore, MD
2/02	Speaker, Johns Hopkins Hospital Surgical Grand Rounds, "Esophageal Cancer," Baltimore, MD
5/02	Speaker, National Cancer Institute Center to Reduce Health Disparities Symposium, "The Surgical Clinician Scientist," Bethesda, MD

10/02 Speaker, Johns Hopkins Undergraduate Campus, "Pre-health Professions Evening Conversation Series," Baltimore, MD

11/02 Speaker, American College of Surgeons Oncology Group Presentation, "DNA Methylation in Lung Cancer," Arizona

2/03 Speaker, Johns Hopkins Surgical Grand Rounds, "Pulmonary Metastases," Baltimore, MD

4/03 Moderator, 13th Annual Society of Black Academic Surgeons, Birmingham, AL

8/03 Speaker, National Medical Association Annual Meeting, "Update on Esophageal Cancer," Philadelphia, P.A.

9/03 Speaker, M.D. Anderson Hospital CME Presentation, "Early Stage NSCLC," Orlando, FL

9/03 Speaker, Morton Plant Hospital CME Presentation Moffit Affiliate, "Adjuvant Chemotherapy for NSCLC," Tampa, FL

1/04 Speaker, American College of Surgeons Oncology Group, "DNA Methylation in Lung Cancer," Florida

4/04 Moderator, 14th Annual Society of Black Academic Surgeons, Washington, DC

4/04 Speaker, Industry Sponsored CME Presentation, "Early Stage Lung Cancer," Miami, FL

10/04 Speaker, University of Miami Medical Oncology Grand Rounds, "Epigenetics and Lung Cancer," Coral Gables, FL

10/04 Speaker, Memorial Regional Hospital Ground Rounds, "HIV Lung Cancer," Hollywood, FL

11/04 Speaker, Howard Oncology Research Symposium, "Epigenetic Biomarkers to Predict Lung Cancer Recurrence," Grand Hyatt, Washington, DC

4/05 Speaker and Organizer, National Cancer Institute Center to Reduce Health Disparities Symposium, "Clinical Fellows in Pursuit of a Career in Cancer Research," Bethesda, Maryland

11/05 Speaker, Baltimore Esophageal Study Team "Predicting Chemosensitivity of Neoadjuvant Therapy in Esophageal Cancer-A Surgeon's Perspective," Baltimore, MD

3/06 Lecture, Fourth Annual Atlanta Lung Cancer Symposium, "Epigenetics and Lung Cancer," Atlanta, GA

4/06 Speaker, OncoMethylome Sciences Scientific Advisory Board Meeting, "Prognostic Biomarkers Using Epigenetics," Washington DC

5/06 Discussant, American Association of Thoracic Surgeons, "Regulation of Mononuclear Inflammation in the Lung by Intercommunications Between the Bronchial and Pulmonary Microcirculations," Philadelphia, PA.

10/06 Speaker, University of Maryland, Mid-Atlantic HIV Group Institute of Virology, "HIV Lung Cancer," Baltimore, MD

10/06 Speaker, Johns Hopkins University Commonwealth Symposium, "Cancer Epigenetics," Baltimore, MD

1/07 Speaker, Johns Hopkins Bloomberg School of Public Health Lunch and Learn, "Lung Cancer in HIV Patients: Is this a Different Lung Cancer?," Baltimore, MD

12/07 Speaker, University of MD Grand Rounds Institute of Virology, "HIV and Lung Cancer," Baltimore, MD

1/08 Speaker, Integration of Imaging and Diagnostics – Molecular Summit, "Molecular Tests for Lung Cancer in the HIV Patient," Philadelphia, PA.

1/08 Speaker, Ninth Annual Johns Hopkins Surgery Department Donor Conference, "Molecular Staging of Cancer," Palm Beach, FL

2/08 Invited Discussant, Maryland Legislature Budget and Taxation Committee, "Lung Cancer," Annapolis, MD

4/08 Speaker, Johns Hopkins Medical School, "Cellular Molecular Medicine Program for Disadvantaged Minorities," Baltimore, MD

4/08 Speaker, Johns Hopkins Hospital Pulmonary Grand Rounds, "Prognostic Biomarkers of Lung Cancer," Baltimore, MD

8/08 Visiting Professor, University of Toledo Surgical Grand Rounds, "Esophageal Cancer and Surgery," Toledo, Ohio

8/08 Roundtable Discussion, Senator Ulysses Currie, "Clinical Trials in Maryland," Annapolis, MD

10/08 Speaker, NIH 11th International Conference, "Malignancies in AIDS and Other Acquired Immunodeficiencies (ICMAOI)," Bethesda, MD

10/08 Speaker, Johns Hopkins Undergraduate Campus, "Prehealth Professions Evening Conversation Series," Baltimore, MD

11/08 Speaker, Johns Hopkins Gastroenterology Neoplasia Symposia, "Esophageal Cancer Biomarkers," Baltimore, MD

11/08 Speaker, University of MD Research Matters Conference, "HIV-Related Malignancies," Baltimore, MD

2/09 Panel Discussion, IMS Health, U.S. Policy Roundtable Advisory Board, Washington, D.C.

3/09 Speaker, Society of Surgical Oncology, "Bringing Diagnostic and Therapeutic Epigenetics to the Clinic in Lung Cancer," Phoenix, Arizona

4/09 Speaker, Society of Black Academic Surgeons, "Socioeconomic Status and Social Isolation as a Determinant of Survival in NSCLC," Seattle, Washington, DC

4/09 Panel Discussion, IMS Health, Lung Cancer Advisory Board, Atlanta, Georgia.

10/09 Lecturer, Association of Academic Surgeons Career Development Course, "K Award Hints," Chicago, IL

10/09 Discussant, 95th Annual American College of Surgeons Clinical Congress, "Stromal activated fibroblasts promote pancreatic cancer proliferation and erlotinib resistance through ErbB3-PI3K signaling," Chicago, IL

1/10 Speaker, Joint AACR-IASLC Conference, "Moving Prognostic Epigenetic Markers for Lung Cancer into the Clinic," San Diego, CA

1/10 Keynote Speaker, Second Annual D. H. Williams-Richard Laurey Lecture of the ABCTVS, "A New Therapeutic Approach to Lung Cancer," Fort Lauderdale, FL

1/10 Speaker, OHSU Esophageal Retreat, "Epigenetic Biomarkers and New Approaches for Treating Esophageal Cancer," Portland, Oregon

2/10 Keynote Speaker, American Lung Association/Oregon Thoracic Society 48th Annual Chest Disease Conference, "Biomarkers and Epigenetic Therapy: A Novel Approach," Bend River, Oregon

2/10 Keynote Speaker, American Lung Association/Oregon Thoracic Society 48th Annual Chest Disease Conference, "Lung Cancer in the HIV Patient: Is this a Different Lung Cancer?," Bend River, Oregon

4/10 Speaker, SAIS Campus, "Bringing Epigenetic Science to Health and Medicine," Washington DC

5/10 Keynote Dinner Speaker, University of Texas, "The Dr. Joe Thorne Gilbert Centennial Lectureship in Health Professionals," Austin, TX

5/10 Speaker and Panelist, American Thoracic Society Clinical Workshop, "Biomarkers for Lung Cancer," New Orleans, LA

6/10 Visiting Professor, Memorial Sloane Kettering Lung Cancer Oncogenome Group, "Epigenetic Therapy and Lung Cancer" New York, NY

9/10 Visiting Professor, Washington University, Siteman Cancer Center at Barnes-Jewish Hospital, "Moving Prognostic Biomarkers into the Clinic: A Novel Approach to Lung Cancer," St Louis, Missouri

10/10 Lecturer, Association of Academic Surgeons Career Development Course, "K Award Hints," Washington, DC

11/10 Speaker, Johns Hopkins Executive Briefing, Hilton Hotel, "New Advances in Men's Health," Baltimore, MD

1/11 Visiting Professor, University's Knight Cancer Institute, The Oregon Health and Science, "Lung Cancer in HIV Patients: Is This a Different Lung Cancer," Portland, Oregon

1/11 Visiting Professor, The Oregon Health and Science University Esophageal Retreat, "Epigenetic Biomarkers and New Approach for Esophageal Cancer," Portland, Oregon

2/11 Moderator, Association of Academic Surgeons Surgical Congress, "Thoracic Surgery Session," San Diego, California

3/11 Speaker, General Thoracic Surgery Club, "Lung Cancer Clinical Trials in Thoracic Surgery," Captiva Island, FL

3/11 Speaker, Radio WOLB 1010, "Breaking It Down Health Our Way," Baltimore, MD

3/2011 Speaker, University of Minnesota Surgical Grand Rounds and Masonic Comprehensive Cancer Center Rounds, "Epigenetic Therapy: A Novel Approach to Treating Lung Cancer," Minneapolis, MN

5/11 Speaker, Radio WOLB 1010, "Breaking It Down Health Our Way," Baltimore, MD

5/11 Lecturer, Johns Hopkins, Festschrift for Charles Balch, "Epigenetic Therapy Different Than Chemotherapy," Baltimore, MD

6/11 Lecturer, Johns Hopkins Surgical Biennial Forum, "Epigenetic Therapy and Lung Cancer," Baltimore, MD

6/11 Speaker, Maryland Academy of Family Physicians, "Bringing Epigenetic Science to Health's Medicine," Ocean City, MD

6/11 Speaker, National Medical Association, Annual Scientific Assembly and Convention, "Update on Esophageal Cancer," Washington, DC

9/11 Lecturer, The Halsted Society, "Epigenetic Therapy and Lung Cancer," Baltimore, MD

9/11 Lecturer, MICR Conference, The Science of Cancer Health Disparities, "Developing Molecular Markers for Solid Tumor Detection and the Promise of Epigenetic Therapy," Washington DC.

10/11 Speaker, World Oncology Congress, "Advances in Surgical Oncology in Lung Cancer," San Francisco, CA.

4/12 Lecturer, Select Biosciences Epigenetics World Congress, "Epigenetic Therapy," Boston, MA

10/12 Speaker, Hopkins Dean's Summit, "New Frontier for Curing Disease," Baltimore, MD

11/12 Panel Discussion Speaker, Johns Hopkins, The 18th Annual "A Woman's Journey Seminar" "Advances in Cancer," Hilton Hotel, Baltimore, MD.

1/13 Speaker, Society of Thoracic Surgeons, "Disparities in Outcomes Among Underrepresented Minorities-Disparities in Lung Cancer Incidence in Minorities Around the World," Los Angeles

1/13 Speaker, Association of Academic Surgeons/Society of University Surgeons Inaugural Surgical Investigators' Course: The Grant Writing Workshop, "Writing A Successful Mentored Career Development Grant," New Orleans

2/13 Speaker, Johns Hopkins Bloomberg School of Public Health, "Innovations in Tobacco Control – Disparities in Lung Cancer Incidence in Minorities Around the World," Baltimore MD

3/13 Speaker, Fifth Annual Fox Chase Cancer Center-Advances in Thoracic Oncology Conference, Fox Chase Cancer Center, "Challenges in the Management of Thoracic Malignancies Advances," Philadelphia, PA

6/13 Visiting Professor, Baylor College of Medicine Research Day, Michael E. DeBakey Department of Surgery, "Think Big-Your Career is too Short to be Little," Houston, Texas

6/13 Speaker, Johns Hopkins, Scientific Session of the Halsted Resident Biennial Meeting, "Epigenetic Therapy a New Way of Treating Lung Cancer," Baltimore, MD

2/14 Speaker, Association of Academic Surgeons/Society of University Surgeons, Surgical Investigators' Course: The Grant Writing Workshop, "Study Section Review of K Awards-The Do's and Don'ts," San Diego, CA

2/14 Keynote Speaker, Georgetown University Hospital, Martin Luther King Jr. Grand Rounds, "Lessons for Healthcare from Dr. King's Letter from a Birmingham Jail – "The Ominous Clouds of Inferiority," Washington, DC

8/14 Speaker, Johns Hopkins Hospital, Chevy Chase Auditorium, "Strengthening States through Innovation and Entrepreneurship", Baltimore, MD

9/14 Lecturer, University of Maryland School of Nursing, "Chest Tube Insertion lecture and skills lab Target Population for Lecture Content", Baltimore, MD

3/15 General Thoracic Surgery Club, Naples, FL

4/15 SBAS Annual Meeting, North Carolina

4/15 AACR/MICR, "Personalized Career Discussion", Philadelphia, PA

8/15 The Door Summer Camp, Baltimore, MD

9/15 Lecturer, University of Maryland, Baltimore School of Nursing, "Chest Tube Insertion", Baltimore, MD

10/15 Lunch and Learn – Global Health Disparities in Smoking, Baltimore, MD

10/15 Navigating the Academic & Clinical Maze, Faculty Development Program, Baltimore, MD

10/15 School of Public Health, Fundamentals of Clinical Oncology for Public Health Professionals, Baltimore, MD

11/15 A Woman's Journey, 21st Annual Conference, "Excessive Sweating", Baltimore, MD

11/15 Lecturer, Health Disparities Seminar, Baltimore, MD

- 1/16 Speaker, Department of Surgery Grand Rounds, “Lessons from a Birmingham Jail-“The Ominous Clouds of Inferiority”, Baltimore, MD
- 2/16 Speaker, A Woman’s Journey, Women’s Health Conference, “Excessive Sweating”, Palm Beach, FL
- 4/16 Speaker, SBAS Leadership and Faculty Development Institute, “Navigating the Promotion and Tenure Process – Lessons Learned, Mission Accomplished”, Columbus, OH
- 4/16 Facilitator, MICR Professional Advancement Session Roundtable, “The Physician/Scientist”, New Orleans, LA
- 5/16 Surgical Grand Rounds – Prince Georges Hospital, “Adjuvant Epigenetic Therapy for Lung Cancer”
- 8/16 Lecturer, Latino College and High Summer School Scholars, “Gene to Society Approach”, Baltimore, MD
- 9/16 Speaker, Faculty Development Program for New and Junior Faculty, Navigating the Academic and Clinical Maze, “Promotions and Tenure Process”, MISTIC Center, Baltimore, MD
- 11/16 Speaker, Translational Research Conference, “The Promise of Epigenetic Therapy”, Albert H Owens Auditorium, Baltimore, MD
- 12/16 Lecturer, School of Public Health, Fundamentals of Clinical Oncology for Public Health Professionals, Baltimore, MD
- 12/16 Speaker, Hopkins Center for Health Disparities Seminar, “Minority Status as a Strong Predictor of Lung Cancer Disparities: A Global Perspective”, Hampton House auditorium, Baltimore, MD
- 5/17 Lecturer, Institutional conference of Dysautonomia, Johns Hopkins University, “Excessive Sweating-Understanding Hyperhidrosis in the Context of Dysautonomia”, Baltimore, MD
- 6/17 The Door Summer Camp, Baltimore, MD
- 10/17 SBAS Executive Council Retreat,
- 11/17 Grand Rounds, Danbury Hospital, Danbury, CT
- 11/17 Lecturer, School of Public Health, Fundamentals of Clinical Oncology for Public Health Professionals, Baltimore, MD

Invited Overseas Sponsored Talks

- 1986 Speaker, Newcastle University, “The New Japanese Science: Biotechnology,” Tyne, Newcastle, UK
- 1987 Speaker, Oxford University, Nissan Institute of Japanese Studies, “Biotechnology in Japan,” UK
- 1995 Keynote Dinner Speaker, Bermuda College First Annual Corange Science Lecture Series, “Genes-Nature and Nurture,” Hamilton, Bermuda
- 1996 Keynote Dinner Speaker, Bermuda College Second Annual Corange Science Lecture Series, “Becoming a Scientist,” Hamilton, Bermuda
- 2/99 Speaker, The King Edward Hospital Grand Rounds Presentation, “Thoracic Malignancies,” Hamilton, Bermuda.
- 11/01 Lecture, Warwick Academy School, Thoughts on Aging, Sir John Sharpe Lecture Series, “Will Our Children Live To Be 120 Years Old?,” Bermuda
- 7/04 Speaker, The King Edward Hospital Grand Rounds Presentation, “Update on Esophageal Cancer,” Hamilton, Bermuda
- 2/05 Keynote Dinner Speaker, Bermuda College, Tenth Annual Corange Science Lecture Series, “Heart Attacks, AIDS, and Cancer-Experiences In Scientific Discovery,” Hamilton, Bermuda
- 2/06 Keynote Address, Japan National Cancer Center, Third Tokyo Surgical Oncology Conference, “How to Succeed as a Young Academic Surgeon in North America: Lessons Learned that Translate Across the Miles,” Tokyo, Japan
- 2/06 Visiting Professor, Japan National Cancer Center Ground Rounds, “Translational Applications of DNA Promoter Hypermethylation in Thoracic Cancer,” Tokyo, Japan
- 6/06 Keynote Address, Juntendo University 60th Annual Japanese Esophageal Surgery Conference, “Clinical Aspects of Molecular Biology for the Diagnosis and Treatment of Esophageal Cancer,” Tokyo, Japan
- 10/06 Speaker, Johns Hopkins International Appreciation Dinner, “Advances in Thoracic Oncology,” Bermuda

- 3/07 Speaker, First Annual AACR-JCA Joint Oncology Conference, “Genomics, Proteomics and Biomarkers,” Nagoya, Japan
- 10/07 Speaker, Johns Hopkins International Appreciation Dinner, “Advances in Surgery-What Patients Need to Know,” Bermuda
- 4/08 Speaker, King Edward Memorial Hospital CME Presentation, “Advances in Lung Cancer,” Hamilton, Bermuda
- 5/08 Speaker, King Edward Memorial Hospital CME Presentation, “Advances in Esophageal Cancer,” Hamilton, Bermuda
- 10/08 Speaker, Johns Hopkins International Appreciation Dinner, “Epigenetics and Cancer,” Bermuda
- 4/09 Speaker, Tawam Hospital, “Advances in Lung Cancer,” United Arab Emirates
- 4/09 Speaker, Tawam Hospital, “Esophageal Cancer in the Era of Personalized Medicine,” United Arab Emirates
- 9/09 Speaker, Johns Hopkins International Appreciation Dinner, “New Research at Johns Hopkins,” Bermuda
- 4/10 Lecturer, Cedar Bridge Academy, Cancer and Health Care Forum, “Is Chemotherapy Obsolete? Epigenetic Therapy and a New Paradigm for Treating Solid Tumors,” Bermuda
- 4/10 Speaker, Johns Hopkins International Appreciation Dinner, “What’s Going on at Hopkins?,” Bermuda
- 4/10 Keynote Speaker, Bermuda Cancer and Health Forum, “Thoracic Malignancies,” Bermuda
- 5/10 Speaker, Royal Australasian College of Surgeons, “How To Design A Study To Get An Answer: Types of Research, Career Development Course,” Perth, Australia.
- 5/10 Co-Chair Session and Workshop Leader, Royal Australasian College of Surgeons, “Developing A Career in Academic Surgery,” Perth, Australia
- 9/10 Speaker, The Second Annual Niagara Lung Cancer Symposium, “Epigenetic Markers in Lung Cancer Chemoprevention,” Niagara Canada
- 12/11 Visiting Professor, Juntendo University Hospital, Cancer-Early Detection Lecture Series, (Japanese Title: エピジェネティックセラピー: 新しい治療) “New Way of Treating Cancer-Epigenetic Therapy,” Shizuoka, Japan (given in Japanese)
- 12/11 Visiting Professor, Peking University Health Science Center, “New Way of Treating Cancer-Epigenetic Therapy,” Beijing, China
- 12/11 Visiting Professor, Chinese PLA General Hospital, “How to Succeed as a Young, Academic Surgeon in North America: Lessons Learned that Translate Across the Miles,” Beijing, China
- 12/11 Visiting Professor, Chinese Academy of Medical Sciences Cancer Institute and Hospital, “New Way of Treating Cancer-Epigenetic Therapy,” Beijing, China
- 12/11 Visiting Professor, Fourth Military Medical University Hospital of Digestive Diseases, “CHFR- New Biomarker for Taxane in Esophageal Cancer,” Xi’an, China
- 12/11 Visiting Professor, Fudan University: Shanghai Public Health Clinical Center of Infectious Diseases, “Lung Cancer in Patients Living with HIV-A Growing Problem Worldwide,” Shanghai, China
- 1/12 Visiting Professor, University of Toronto, “Biomarkers and Personalized Therapy in Esophageal Cancer,” Toronto Canada
- 3/12 Speaker, Marie Lannelongue Hospital and the Gustave Roussy Institute of Thoracic Oncology, “Lung Cancer in Patients Living with HIV-A Growing Problem Worldwide,” Paris, France
- 3/12 Speaker, University Hospital of Montpellier, “HIV Screening Study in Lung Cancer,” Montpellier, France
- 5/12 Speaker, The Royal Australasian College of Surgeons, “Developing A Career in Academic Surgery Course – Writing an Abstract/Choosing a Journal,” Kuala Lumpur, Malaysia
- 5/12 Keynote Speaker, The Royal Australasian College of Surgeons, “Developing A Career in Academic Surgery Course – Writing a Career Developmental Grant Anywhere in the World,” Kuala Lumpur, Malaysia
- 5/12 Keynote Speaker, The Royal Australasian College of Surgeons, HPB and Upper GI Section, “Neoadjuvant Therapy in Oesophageal Cancer,” Kuala Lumpur, Malaysia
- 5/12 Keynote Speaker, The Royal Australasian College of Surgeon, HPB and Upper GI Section, “Future Directions in the Surgical Management of Oesophageal Cancer,” Kuala Lumpur, Malaysia

- 5/12 Speaker, The Royal Australasian College of Surgeons, Cardiothoracic Surgery Section, “Use of Biomarkers in the Postsurgical Management of Lung Cancer,” Kuala Lumpur, Malaysia
- 5/12 Speaker, The Royal Australasian College of Surgeons, “How I Do It – Open Oesophagectomy, Masterclass,” Kuala Lumpur, Malaysia
- 5/12 Speaker, The Royal Australasian College of Surgeons, Cardiothoracic Surgery Section, “Thoracic Sympathectomies,” Kuala Lumpur, Malaysia
- 5/12 Speaker, The Royal Australasian College of Surgeons, Cardiothoracic Surgery Section, “Pulmonary Metastatectomy of Colorectal Metastases,” Kuala Lumpur, Malaysia
- 5/12 Panelist, The Royal Australasian College of Surgeons, “Case Presentations in Oesophageal Cancer,” Kuala Lumpur, Malaysia
- 10/12 Speaker and Co-President, PLA General Hospital, The Third International Cancer Epigenetics Meeting, “New Way of Treating Cancer – Epigenetic Therapy,” Beijing, China
- 3/13 Visiting Professor, Groote Schuur Hospital, University of Capetown, “Disparities in Lung Cancer Incidence in Minorities Around the World,” South Africa
- 3/13 Visiting Professor, University of Stellenbosch, “Epigenetic Therapy An Alternative Way of Treating Lung Cancer,” Tygerberg, South Africa
- 4/13 Keynote Speaker, National Cancer Center East, The Second Annual National Summit Forum of Surgical Oncology, “Gastrointestinal Malignancies,” Beijing, China
- 10/13 Speaker, IASLC 15th World Conference, Sydney Convention & Exhibition Centre, “Minority Status as a Strong Predictor of Health Disparities: A Global Perspective,” Sydney, Australia
- 11/13 Keynote Lecturer, The 54th Annual Meeting of the Japan Lung Cancer Society, (Japanese Title: エピジェネティック療法で進行肺癌（がん）患者の生存期間が延長) “Extending Survival in Patients with Lung Cancer Using Epigenetic Therapy,” Tokyo, Japan (given in Japanese).
- 11/13 Speaker, Juntendo University Grand Rounds, (Japanese Title: エピジェネティックセラピー：新しい治療) “New Way of Treating Cancer – Epigenetic Therapy,” Tokyo, Japan (given in Japanese)
- 5/14 Speaker, Johns Hopkins International Appreciation Dinner, Butterfield Bank in Bermuda, “Killing Cancer without Chemotherapy-The New Fight Against Cancer,” Bermuda
- 1/15 Hamilton, Bermuda
- 5/15 Speaker, Butterfield Bank in Bermuda, AWJ Past Patient Event, Hamilton, Bermuda
- 10/15 74th Annual Japan Cancer Association Cancer Research – Epigenetic Therapy, Nagoya, Japan
- 10/16 Keynote speaker, Fifth Annual International Cancer Epigenetics Meeting, “The Promise of Adjuvant Epigenetic Therapy in Early Stage Non Small Cell Lung Cancer”, PLA Military Hospital, Beijing, China
- 9/17 Speaker, Patient Services Event, “Proposal for Patient Forum”, Beijing, China
- 10/17 Speaker, Warwick Academy, Bermuda
- 11/17 Lecturer, Disaster Medicine Conference, Japanese Cancer Association, Tokyo, Japan
- 5/18 Emcee and moderator, A Woman’s Journey, Hamilton, Bermuda

OTHER PROFESSIONAL ACCOMPLISHMENTS

- 2001 Received Science of Clinical Investigation Certificate, Johns Hopkins Bloomberg School of Public Health
- 2008 Johns Hopkins Leadership Development Program Graduate
- 2012-present Castle Connolly’s Top Doctors
- 2017 Examination Committee for Graduate Board Oral Examination for Alejandro Stark